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EDUCATION and CERTIFICATION

A.A. Tarrant County Junior College, Fort Worth, 1972
 B.A. Texas Christian University, Fort Worth, 1974 (Government and Geography)
 M.A. University of Missouri, Columbia, 1976 (Geography)
 Ph.D. University of Oklahoma, Norman, 1979, (Geography, Archaeology)
 Advisor: B. L. Turner II

Certified Engineering Technician (Civil); NICET No. 14255
 Certified in Survival, Evasion, Resistance, Escape; FAETUPAC Whidbey, U.S. Navy
Compostellae Capituli Beati Jacobi

SPECIALTIES: landscapes, agricultural and water control technology, arid lands,
 archaeogeography, American Southwest, México, and Spain

MEMBERSHIPS IN LEARNED SOCIETIES

Association of American Geographers
 American Geographical Society
 Society for American Archaeology
 American Association for the Advancement of Science
 Conference of Latin Americanist Geographers
 Arizona Archaeological and Historical Society
 International Water History Association

ACADEMIC POSITIONS

1976, 1979 Special Instructor, Department of Geography, University of Oklahoma
 1977-79 Research Associate, Department of Anthropology, University of Oklahoma
 1979-80 Assistant Professor, Department of Geology and Geography, Mississippi State
 University, Starkville
 1981-87 Assistant Professor, Department of Geography, University of Texas at Austin
 1987-96 Associate Professor, Department of Geography, University of Texas at Austin
 1996-2000 Professor, Department of Geography, The University of Texas at Austin
 2000 – Erich W. Zimmermann Regents Professor of Geography, Department of
 Geography and the Environment, The University of Texas at Austin

ADMINISTRATIVE SERVICES

1982-88 Undergraduate Advisor
 1988-92 Graduate Advisor; Chair, Graduate Studies Committee
 1992-96 Department Chair
 2004-06, 09
 1998-2000 Graduate Recruiter, Chair, Graduate Studies Committee
 '02-'04

ELECTED OFFICES

- 1980-84 Chairperson, Cultural Ecology Specialty Group of the Association of American Geographers
- 1984-86 Secretary-Treasurer, Cultural Ecology Specialty Group of the Association of American Geographers
- 1986-88 Member, Board of Directors, Cultural Ecology Specialty Group of the Association of American Geographers
- 1989-94 Member, Board of Directors, Conference of Latin Americanist Geographers
- 1990-92 Vice-Chairperson, Board of Directors, Conference of Latin Americanist Geographers
- 1992-94 Chairperson, Board of Directors, Conference of Latin Americanist Geographers
- 1994-95 Secretary-Treasurer, Southwest Division Association of American Geographers
- 1995-97 Chair, Southwest Division, Association of American Geographers

APPOINTMENTS

- 1980 Member, Program Committee, Annual Meeting of the Southeastern Division of the Association of the American Geographers, Blacksburg, Virginia
- 1982 Member, Local Arrangements Committee, Annual Meeting of the Association of American Geographers, San Antonio, Texas
- 1987-93 Member, Committee on Scientific Freedom and Responsibility, Association of American Geographers.
- 1989 Chair, Arrangements and Program Committee, Annual Meeting of the Conference of Latin Americanist Geographers, Querétaro, México.
- 1991 Judge, Presidio La Bahia Award (best book on Spanish Colonial Texas), presented by The Sons of the Republic of Texas.
- 1993-96 Member, Editorial Board, *Annals of the Association of American Geographers*.
- 2008-11
- 1993-95 Member, Editorial Advisory Board, *Kiva* (Journal of Southwestern Anthropology and History).
- 1994 Nominee, Honors Committee, Association of American Geographers.
- 1994 Co-Chair, Arrangements and Program Committee, Primero Reunión de Geografía Regional: México-Estados Unidos-Canadá. Joint Meeting of La Sociedad Mexicana de Geografía y Estadística and the Conference of Latin Americanist Geographers, Ciudad Juárez, Chihuahua, México (with Maria Luisa Garcia Amaral).
- 1995-98 Member, Editorial Board, *Geografía y Desarrollo* (México).
- 1996 – Member, Editorial Board, *Journal of Cultural Geography*.
- 1996 Nominee, National Councilor, Association of American Geographers.
- 1997 Chair, Program Committee, Annual Meeting of the Association of American Geographers, Fort Worth, Texas.
- 1997-2004 Executive Director, Conference of Latin Americanist Geographers.
- 1999-2005 Member, Editorial Board, *Journal of Historical Geography*.
- 2000 Nominee, Regional Councilor, Association of American Geographers.
- 2002-2005 Alternative National Representative (United States), Geography Commission, Pan American Institute of Geography and History.
- 2003 Nominee, Chair-Elect, Section E, Geology and Geography, American Association for the Advancement of Science.
- 2003 – Member, Editorial Advisory Board, *Mono y Conejo* (Mesoamerican publication of the Texas Archaeological Research Laboratory).

- 2003-2006 Member, George and Viola Hoffman Award Committee, Association of American Geographers.
- 2007 Nominee, Honors Committee, Association of American Geographers.
- 2010 Local Arrangements and Program Organizer, Texas Map Society Spring Meeting, Austin, April.
- 2011 Local Arrangements and Program Organizer, Southwest Division of the Association of American Geographers Fall Meeting, Austin, November

VOLUNTEERED SERVICES

- 1981 Organizer and Chair, Special Session on the Philosophy and Methodology of Cultural Ecology, Annual Meeting of the Association of American Geographers, Los Angeles, California.
- 1983 Organizer and Chair, Special Session on Future Trends in Hazard Research, Annual Meeting of the Association of American Geographers, Denver, Colorado.
- 1986 Organizer, Special Session on Irrigation, Society, and Change, Annual Meeting of the Association of American Geographers, Minneapolis, Minnesota.
- 1991 Co-Organizer, Gran Quivira Conference XX, Goliad and San Antonio, Texas (with Elizabeth A. H. John and Adán Benavides).
- 1992 – Contributor, *SMRC Revista* (formerly *Newsletter*), Southwest Mission Research Center, The Arizona State Museum, Tucson.
- 1994 Organizer, Special Session on The Geographical Personality of Robert C. West's Sonora, Annual Meeting of the Association of American Geographers, San Francisco, California
- 1995 Co-Founder and Co-Editor, *EarthWorks*, the first hypermedia geographical journal (with Kenneth E. Foote and Gregory W. Knapp).
- 1998 Sponsoring Agent, Gran Quivira Conference XXVII, Nuevo Laredo, México.
- 2006 Organizer and Chair, two Sessions on *La(s) Frontera(s) de Desarrollo: The Evolving South Texas Borderland, Race, Ethnicity, and Place Conference*, Texas State University-San Marcos.
- 2009 Organizer, two sessions on Mapping Global Agricultural History, First World Congress on Environmental History, Kobenhavn, Denmark.
- 2010 Organizer, Special Sessions on Thirty Years of Culture Change, Annual Meeting of the Association of American Geographers, Washington, DC.
- 2011 Organizer, Symposium on Global Agricultural History: Mapping the Past for Modeling the Future. Annual Meeting of the American Association for the Advancement of Science, Washington, DC, February.

AWARDS and HONORS

- 1994 Carl O. Sauer Distinguished Scholarship Award, Conference of Latin Americanist Geographers
- 1996 *Who's Who in America*.
- 2001 Fulbright Distinguished Lectureship in Environmental Issues, Mexico (declined)
- 2003 Robert McC. Netting Award, Cultural and Political Ecology Specialty Group of the Association of American Geographers
- 2003 Featured Geographer, *Harcourt Horizons: People and Communities*, p. 173
- 2004 Outstanding Graduate Advisor, The University of Texas at Austin
- 2004 Outstanding Service Award, Conference of Latin Americanist Geographers
- 2005 Fellow, American Association for the Advancement of Science

- 2006 Distinguished Scholarship Honors, Association of American Geographers
 2007 Fulbright Senior Specialist, Sweden
 2007 Top 100 Open Courseware Projects—Field Techniques—Online Educational Database, <http://oedb.org/library/features/top-100-open-courseware-projects>.

RESEARCH GRANTS

- 1980 Biological and Physical Sciences Research Institute, Mississippi State University.
 1981 Mellon Foundation, Center for Latin American Studies, Tulane University
 1981-82 National Science Foundation, No. SES-8200546.
 1982 University Research Institute, University of Texas, Summer Research Award.
 1983 The Association of American Geographers.
 1984 University Research Institute, University of Texas.
 1984 Tinker Foundation, Institute of Latin American Studies, University of Texas.
 1986, '89, '92, 2001, '02 Mellon Foundation, Institute of Latin American Studies, University of Texas.
 1987-88 National Endowment for the Humanities, No. RO-21458-87.
 1991 Erich W. Zimmermann Fellowship, Department of Geography, UT–Austin
 1991- National Science Foundation, Co-PI on several Dissertation Improvement Grants
 1996 National Geographic Society, No. 5834-96.
 1997 Paul W. McQuillen Memorial Fellowship, John Carter Brown Library, Brown University.
 1997 Houston Endowment, Institute of Latin American Studies, University of Texas.

FIELD EXPERIENCE (with Funding agency)

- 1977-78 Prehistoric and present-day settlement, ecological, and agricultural research in Sonora, México; June-August (Dissertation research, member of the NSF-funded Río Sonora Project, No. BNS 76-16818).
 1978 Analysis of arroyo environments in the Big Bend region of Texas
 1980 Reconnaissance of traditional agro-ecosystems in southwestern United States and northwestern México; May-June (BPSRI-MSU).
 1981 Analysis of traditional agro-ecosystems and changes in arroyo agriculture in Sonora, México; June- August (NSF).
 1982 Survey of southwestern Spanish Mission agricultural lands; May-June (URI-UT).
 1983 Inspection of ancient field systems in Chaco Canyon, New Mexico; March.
 1983 Reconnaissance of prehistoric terraces in New Mexico and Western Apache irrigation systems; June-July.
 1984 Investigation of Spanish colonial townscapes and cattle pastures in northeastern México; March.
 1984 Survey of intermittently used lands of marginal agricultural quality in northern Mexico; May-June (Tinker-ILAS).
 1984 Assessment of prehistoric agricultural environs in western New Mexico; June- (URI-UT).
 1985, '86, '88, '90, '94, '97, 99, 2001-'03, '05-'10 Reconnaissance of Spanish colonial agriculture and ranching landscapes, and water control features in various parts of México.

- 1986 Investigation of prehistoric canal irrigation technology in northern México and southern Arizona; June-July (Mellon-ILAS).
- 1987 Assessment of prehistoric agricultural features on the Yucatan Peninsula; January (URI-UT).
- 1987 Survey of Spanish colonial sheep herding routes through the Sierra Madre Oriental of México; November (URI-UT).
- 1988 Analysis of various ancient agricultural fields, features, and systems in the New River and Flagstaff areas, Arizona; Chama and Upper Río Grande Valleys, and Zuni Reservation, New Mexico; Mesa Verde area, Colorado; Wisconsin; southern England; and the Netherlands; May-August (NEH).
- 1989 Survey of relict prehistoric agricultural features in the Tehuacán Valley, México; March.
- 1989 Inspection of Aztec aqueducts in Texcoco, and earlier canal irrigation systems near Teotihuacán, Mexico; June (Mellon-ILAS).
- 1989 Assessment of indigenous Puebloan and early Spanish irrigation sites in northern New Mexico; October.
- 1990 Evaluation of late prehistoric agricultural sites in the Tonto Basin, Arizona; May (consultant, Statistical Research, Inc., Tucson).
- 1990 Reconnaissance of Maya raised fields in northern Belize, Central America; May (consultant, National Geographic Society Project No. 4274-90).
- 1990 Study of past and present irrigation systems and their environmental impacts, Chihuahua and Sonora, México; June.
- 1991 Exploration of prehistoric raised fields in the northern Basin of México and terraces in the Sierra Madre of northern México; June and August.
- 1991 Inspection of slash-and-burn fields in tropical dry forest regions of Guerrero, México; September (NSF).
- 1992, '94 Survey of prehistoric water control features in southwestern New Mexico and southeastern Arizona; January, May (URI-UT).
- 1992 Assessment of prehistoric water and soil control features and present-day forestry impacts in the Sierra Madre of northern, México; May and (Mellon-ILAS).
- 1992, '93 Evaluation of prehistoric agricultural sites in the Lower Verde River Valley, Arizona; May, December, May (consultant, Statistical Research, Inc., Tucson).
- 1993, '94 Collection of paleoenvironmental data by means of core samples from coastal lowlands of Veracruz, México; January, April (NASA).
- 1993 Inspection of irrigated terraces on the Hopi Reservation, Arizona, May.
- 1994 Reconnaissance of prehistoric rock-bordered grids in Southeastern Arizona, May (URI-UT).
- 1995 Survey of contemporary, Spanish colonial, and indigenous agricultural landscapes of southern México and northern Central America, January.
- 1996, '97, Reconnaissance of Lower Rio Grande/Bravo Valley with a focus on Falcon
2002 Reservoir, north Mexican drought, and the reappearance of Guerrero Viejo.
- 1997 Multidisciplinary investigation of prehistoric rock-bordered grids in the Gila Valley, Arizona, January, March, June, October (NGS).
- 1997 Examination of Roman and Islamic irrigation features of Spain, Portugal, and France, April-May (Houston-ILAS).
- 1998, 2000 Archaeological investigation of ancient canal irrigations systems on the flanks of the Pinaleno Mountains, Arizona, May-July.
- 1999, 2009 Inspection of Roman aqueducts, Lazio, Italy, January, December.

- 1999, 2006 Examination of wet taro cultivation and terracing, Hawai'i, April.
- 2000 Excavation and survey of prehistoric irrigation canals in the Yautepec and Tehuacan valleys of Mexico, May-June.
- 2000 Reconnaissance of agricultural landscapes in the Netherlands and southeastern Poland.
- 2001 Survey of cultural, especially agricultural and hydraulic, landscapes of Spain and Morocco, March, May-June
- 2001 Preliminary assessment of environmental management and sustainable agriculture in northwest Mexico, July (Mellon-LLILAS)
- 2001 Inspection of agro-forestry practices in Esmeraldas province, Ecuador, August.
- 2001 Inspection of landscape change in highland Honduras, October.
- 2003 Inspection of agricultural plots affected by invasive plant species, Samoa, June.
- 2004 Reconnaissance of prehistoric and traditional agricultural landscapes in highland Guatemala, May.
- 2004 Assessment of deforestation impacts on the Panama Canal, December.
- 2005 Re-study of the cityscape of Quiroga, Michoacan, Mexico, October.
- 2006 Inspection of building materials mining sites in Veracruz, Mexico, March.
- 2007 Investigation of Spanish era aqueducts in México, Jan., July (Mellon-LLILAS)
- 2007 Re-study of Huépac, Sonora, México, February.
- 2008 Exploration of collaborative research opportunities, Cuatrociénegas, Coahuila, Mexico, August.
- 2009 Inspection of archaeological sites in Río Bravo Conservation Area, and exploration of the eastern and southern landscapes of Belize (Programme for Belize Archaeological Project), August.
- 2009 Survey of aqueducts in southern Portugal, August.
- 2011 Assessment of Renaissance aqueducts in Tuscany, Italy, March.
- 2011 Inspection of an operating irrigation system in Marakwet, Kenya, and relicts of a long-abandoned precolonial system in Engaruka, Tanzania, September.

PUBLICATIONS

Books and Monographs:

- 1988 *Pre-Hispanic Occupance in the Valley of Sonora, Mexico: Archaeological Confirmation of Early Spanish Reports.* (Tucson: Anthropological Papers of the University of Arizona 48, University of Arizona Press).
- 1990 *Canal Irrigation in Prehistoric Mexico: The Sequence of Technological Change.* (Austin: The University of Texas Press).
- 2000 *Cultivated Landscapes of Native North America.* (Oxford: Oxford University Press).
- 2004 *The Safford Valley Grids: Prehistoric Cultivation in the Southern Arizona Desert.* Co-edited with James A. Neely. (Tucson: Anthropological Papers of the University of Arizona 70, University of Arizona Press).
- 2004 *Canales de Riego en el México Prehispanico: La Secuencia del Cambio Tecnológico.* (Chapingo: Museo Nacional de Agricultura, Universidad Autónoma Chapingo). Translated version of the 1990 book, updated with a new chapter and expanded bibliography.

Articles and Chapters:

- 1976 Reilly's Law of Retail Gravitation: A Comparison with Empirically Derived Interaction Fields in Missouri. *The Missouri Geographer* 23.1:9-20.
- 1976 Locational Characteristics of Mobile Home Parks in Columbus, Ohio. *The Geographical Bulletin* 13:17-35.
- 1978 The Concept and Measure of Agricultural Intensity. Co-authored with B.L. Turner II. *The Professional Geographer* 30:297-301.
- 1979 La Población Serrana de Sonora en Tiempos Prehispánicos: La Evidencia de los Asentamientos Antiguos, In *Memoria IV Simposio de Historia de Sonora*, Juan Antonio Ruibal Corella, coor. (Hermosillo: Instituto de Investigaciones Históricas):1-16.
- 1980 Aboriginal Agricultural Development in the Valley of Sonora, Mexico. *Geographical Review* 70:328-342.
- 1981 Obsidian Hydration Dating in Eastern Sonora, Mexico. In *Obsidian Dates III. A Compendium of Obsidian Hydration Determinations Made at the UCLA Obsidian Hydration Laboratory*, Clement W. Meighan and Glenn S. Russell, eds. (Los Angeles: University of California, Institute of Archaeology Monograph XVI):155-159.
- 1983 Agricultural Expansion in a Marginal Area of Mexico. *Geographical Review* 73:301-313.
- 1984 Settlements and the Development of 'Statelets' in Sonora, Mexico. *Journal of Field Archaeology* 11:13-24.
- 1984 Agricultural Change as an Incremental Process. *Annals of the Association of American Geographers* 74:124-137.
- 1984 Cabeza de Vaca's Land of Maize: An Assessment of its Agriculture. *Journal of Historical Geography* 10:246-262.
- 1984 La Tierra del Maíz de Cabeza de Vaca: Cuando La Serrana fue el Cesto de las Tortillas. *Sonora: La Revista Cultural del Noroeste de México* 29:14-16 Reprinted in translation from *Journal of Historical Geography*).
- 1984 Sorprendente y Unico Plano Prehistórico de Irrigación en Banámichi: Investigación Agrícola del Noreste del Estado. *Sonora: La Revista Cultural del Noroeste de México* 30:20-23 (Reprinted in translation from *Journal of Historical Geography*).
- 1985 The Use of Check Dams for Protecting Downstream Agricultural Lands in the Prehistoric Southwest: A Contextual Analysis. *Journal of Anthropological Research* 41:279-305.
- 1987 Las Marismas to Pánuco to Texas: The Transfer of Open Range Cattle Ranching From Iberia Through Northeastern Mexico. *Yearbook, Conference of Latin Americanist Geographers* 13:3-11.
- 1988 Intermittent Use and Agricultural Change on Marginal Lands: The Case of Smallholders in Eastern Sonora, Mexico. *Geografiska Annaler* 70B:255-266.
- 1989 Arroyos and the Development of Agriculture in Northern Mexico. In *Fragile Lands of Latin America: The Search for Sustainable Uses*, John O. Browder, ed. (Boulder: Westview Press):251-269.
- 1989 *Pocitos and Registros*: Comments on Water Control Features at Hierve el Agua, Oaxaca. *American Antiquity* 54:841-847.

- 1990 The Physical Landscape of Latin America: Environmental Factors and Human Occupance. In *Pattern of Regional Geography: An International Perspective*, vol. III, World Regions, R.B. Mandal, ed. (New Delhi: Concept Publishing):307-348.
- 1990 Terrace Origins: Hypotheses and Research Strategies. *Yearbook, Conference of Latin American Geographers* 16:9
- 1991 A Finger on the Hohokam Pulse. In *Prehistoric Irrigation in Arizona: Symposium 1988*, Cory Dale Breternitz, ed. (Phoenix: Soil Systems Publications Archaeology 7):139-154.
- 1991 Phytoliths as Indicators of Prehistoric Maize (*Zea mays* subsp. *mays*, Poacea) Cultivation. Co-authored with Charles D. Frederick. *Plant Systematics and Evolution* 177:175-184.
- 1992 Before There Was a Cornbelt: A Prospectus on Research. In *Late Prehistoric Agriculture: Observations from the Midwest*, William I. Woods, ed. (Springfield: Illinois Historic Preservation Agency, Studies in Illinois Archaeology 7):217-240.
- 1992 Some Questions Concerning Development: Comments on "Regional and Economic Development." In *Benchmark 1990*, Tom L. Martinson, ed. *Yearbook, Conference of Latin Americanist Geographers* 17/18:293-294.
- 1992 Regional Ecology and Middle America: Teaching Geography in a Major Latin American Program, In *Benchmark 1990*; Tom L. Martinson, ed., *Yearbook Conference of Latin Americanist Geographers* 17/18:309-312. Appeared initially in *Pre-Conference Proceedings: 20th Anniversary Meetings, Conference of Latin Americanist Geographers*, Cyrus P. Dawsey, comp. (Auburn: CLAG and Department of Geography, Auburn University): 245-252 (1990).
- 1992 House-Lot Gardens in the Gran Chichimeca: Ethnographic Cause for Archaeological Concern. In *Gardens of Prehistory: New World Agriculture and Settlement in Archaeological Perspective*, Thomas W. Killion, ed. (Tuscaloosa: University of Alabama Press):69-91.
- 1992 Agriculture in North America on the Eve of Contact: A Reassessment. *Annals of the Association of American Geographers* 82:386-401.
- 1993 A Method for Distinguishing Between Prehistoric and Recent Water and Control Features. Co-authored with James A. Neely and Michael D. Pool. *Kiva* 59:7-25.
- 1993 Canal Irrigation at Casas Grandes: A Technological and Developmental Assessment of its Origins. In *Culture and Contact: Charles C. DiPeso's Gran Chichimeca*, Anne I. Woosley and John C. Ravesloot, eds. (Dragoon and Albuquerque: The Amerind Foundation and University of New Mexico Press):133-151.
- 1995 The San Saba-Menard Irrigation System: Lessons Learned by Unraveling Its Origin. In *Soil, Water, Biology, and Belief in Prehistoric and Traditional Southwestern Agriculture*. H. Wolcott Toll, ed. (Albuquerque: New Mexico Archaeological Council, Special Publication 2):263-277.
- 1995 Indigenous Development of Mesoamerican Irrigation. *Geographical Review* 85:301-323.
- 1996 Latitudes and Attitudes: The Southern Limit(s) of North America. *Geografía y Desarrollo* 13:79-88.

- 1997 Deserts: Introduction. In *The Evolving Landscape: Homer Aschmann's Geography*. Martin J. Pasqualetti, ed. (Baltimore: Johns Hopkins Press for the Center for American Places):227-231.
- 1998 Innovation and Diffusion of Sand- and Gravel-Mulch Agriculture in the American Southwest: A Product of the Eruption of Sunset Crater. *Quaternaire* 9:61-69.
- 1998 Challenging Regional Stereotypes: The Case of Northern Mexico. *Southwestern Geographer* 2:15-39.
- 1999 Noria Technology in Mexico: Against the Current and Against the Odds. *International Molinology* 59:8-13.
- 2000 Preliminary Assessment of Irrigation Waters on the Ejido Xochimanca, Ticuman, Morelos, Mexico. In *Proyecto Arqueobotánico Ticumán: Informe Técnico Preliminar VI*, Temporada 2000. Luis Morett Alatorre, comp. Chapingo: Museo Nacional de Agricultura, Universidad Autónoma Chapingo):81-91.
- 2001 Learning to See the Impacts of Individuals. *Geographical Review* 91:423-429.
- 2002 Feeding a Growing Population on an Increasingly Fragile Environment. In *Latin America in the Twenty-First Century: Challenges and Solutions*. Knapp, ed. (Austin: Conference of Latin Americanist Geographers and the University of Texas Press). Co-authored with Andrew Sluyter, Eric P. Perramond, Phil L. Crossley, and Dean P. Lambert. 44-75.
- 2003 Channel Changes and Living Fencerows in Eastern Sonora, Mexico: Myopia in Traditional Resource Management? *Geografiska Annaler A: Physical Geography* 85:247-261.
- 2004 Permanent vs. Shifting Cultivation in the Eastern Woodlands of North America Prior to European Contact, *Agriculture and Human Values* 21:181-189.
- 2004 A Checkered Landscape. In *The Safford Valley Grids: Prehistoric Cultivation in the Southern Arizona Desert*. William E. Doolittle and James A. Neely, eds., pp. 1-17, (Tucson: Anthropological Papers of the University of Arizona 70, University of Arizona Press). Co-authored with James A. Neely.
- 2004 Site Topography and Hydrology. In *The Safford Valley Grids: Prehistoric Cultivation in the Southern Arizona Desert*. William E. Doolittle and James A. Neely, eds., pp. 48-61, (Tucson: Anthropological Papers of the University of Arizona 70, University of Arizona Press).
- 2004 Rock Art In *The Safford Valley Grids: Prehistoric Cultivation in the Southern Arizona Desert*. William E. Doolittle and James A. Neely, eds. pp.112-124, (Tucson: Anthropological Papers of the University of Arizona 70, University of Arizona Press). Co-authored with Betty Graham Lee.
- 2004 Answers and Ideas. In *The Safford Valley Grids: Prehistoric Cultivation in the Southern Arizona Desert*. William E. Doolittle and James A. Neely, eds., pp.125-141, (Tucson: Anthropological Papers of the University of Arizona 70, University of Arizona Press). Co-authored with James A. Neely.
- 2004 Gardens are Us, We are Nature: Transcending Antiquity and Modernity. *Geographical Review* 94:391-404.
- 2004 De las Marismas a Pánuco y a Texas: la transferencia del sistema de ganadería de tipo extensivo de la Península Ibérica a y por el Noreste de México. In *De las Marismas del Guadalquivir a la Costa de Veracruz: cinco perspectivas sobre cultura ganadera*. José Velasco Toro and David Skerritt Gardner, trans. Y eds. (Xalapa, México: Universidad Veracruzana y Instituto de la Cultura de Veracruz). Reprinted in translation from *Yearbook of the Conference of Latin Americanist Geographers*, 1987.

- 2006 An Epilogue and Bibliographic Supplement to *Canal Irrigation in Prehistoric Mexico: The Sequence of Technological Change*. *Mono y Conejo* 4:3-15.
- 2006 Agricultural Manipulation of Floodplains in the Southern Basin and Range Province. *Catena* 65:179-199.
- 2006 Environmental Mosaics, Agricultural Diversity, and the Evolutionary Adoption of Maize in the American Southwest. In *Histories of Maize: Multidisciplinary Approaches to the Prehistory, Linguistics, Biogeography, Domestication, and Evolution of Maize*. John Staller, Robert Tykot, Bruce Benz, eds., pp. 109-121, (Amsterdam: Academic Press). Co-authored with Jonathan B. Mabry.
- 2008 Modeling the Early Agricultural Frontier in the Desert Borderland. In *Archaeology Without Borders: Contact, Commerce, and Change in the U.S. Southwest and Northwestern Mexico*. Laurie D. Webster and Maxine E. McBrinn, eds., pp. 55-70, (Boulder: University of Colorado Press). Co-authored with Jonathan B. Mabry.
- 2008 *Misreading Between the Lines: Evidence and Interpretation of Ancient Settlements in Eastern Sonora, Mexico*. In *Ethno- and Historical Geographic Studies in Latin America: Essays Honoring William V. Davidson*. Peter H. Herlihy and Kent Mathewson, and Craig S. Revels eds., pp. 299-308, (Baton Rouge: Geoscience and Man 40).
- 2009 Huépac Revisited: Cultural Remapping of a Sonoran Townscape. *Journal of the Southwest* 51.2:137-164. Co-authored with Daniel D. Arreola, Lindsey Sutton, Arriana Fernandez, John Finn, Claire Smith, and Casey Allen.
- 2009 Traditional Uses of Check Dams: A Global and Historical Introduction. In *Check Dams: Morphological Adjustments and Erosion Control in Torrential Streams*. Carmelo Conesa Garcia, and Mario Aristide Lenzi eds. pp. 1-10 (Nova Science Publishers).
- 2010 México: From the 19th to the 21st Century in Three Decades. *Journal of Cultural Geography* 27:317-329.
- 2011 Expanding the European Landscape: Aqueducts and the Spanish Usurpation of México. In *Landscapes, Identities and Development: Europe and Beyond*. Zora Rocan, Paul Claval, and John Agnew, eds. pp. 151-166 (Farnham UK: Ashgate Publishing)
- In press Landscapes, Locales, Fields and Food. In *The Land Between: The Archaeology of Southeastern Arizona*. Henry C. Wallace, ed. (Dragoon and Tucson: The Amerind Foundation and University of Arizona Press).
- In press Wetting the Dry, Drying the Wet: Native North American Agricultural Landscapes. In *Water and Humanity: Historical Overview*. Vernon L. Scarborough and Fekri Hassan, eds. (Paris: UNESCO).

Book Reviews:

- 1982 *Modeling Change in Prehistoric Subsistence Economies*, Timothy K. Earle and Andrew L. Christenson eds., Academic Press, New York, 1980; *Geographical Review* 72:114-116
- 1982 *Farming Practice in British Prehistory*, Roger Mercer (ed.), Edinburgh University Press, Edinburgh, 1981; *Archaeology* Nov./Dec.: 72.
- 1983 *Population and Technological Change: A Study of Long-Term Trends*, Ester Boserup, University of Chicago Press, Chicago, 1981; *Economic Geography* 59:90-91.

- 1983 *Parmana: Prehistoric Maize and Manioc Subsistence along the Amazon and Orinoco*, Anna Curtenius Roosevelt, Academic Press, New York, 1980; *Geographical Review* 73:117-118.
- 1984 *Frontier on the Rio Grande: A Political Geography of Development and Social Deprivation*, John W. House, Clarendon Press, Oxford, 1982; *Political Geography Quarterly* 3:85-86.
- 1985 *Water in the Hispanic Southwest: A Social and Legal History*, Michael C. Meyer, University of Arizona Press, Tucson, 1984; *Journal of Historical Geography* 11:230-231.
- 1987 *The Archaeology of West and Northwest Mesoamerica*, Michael S. Foster and Phil C. Weigand (eds.), Westview Press, Boulder, 1985; *The Kiva* 52:154-160.
- 1987 *The Presidio and Militia on the Northern Frontier of New Spain, A Documentary History*, Volume 1: 1570-1700. Thomas N. Naylor and Charles W. Polzer, S.J., (comps. and eds.), University of Arizona Press, Tucson, 1986; *The Professional Geographer* 39:509.
- 1988 *Irrigation in the Bajío Region of Colonial Mexico*, Michael E. Murphy, Westview Press, Dellplain Latin American Studies, No. 19, Boulder, 1986; *Geographical Review* 78:99-100.
- 1988 *Good Farmers: Traditional Agricultural Resource Management in Mexico and Central America*, Gene C. Wilken, University of California Press, Berkeley and Los Angeles, 1987; *Geographical Review* 78:464-466.
- 1992 *Wilderness Preservation and the Sagebrush Rebellions*, William L. Graf, Rowman and Littlefield, Publishers, Savage, MD, 1990; *Annals of the Association of American Geographers* 82:164-166.
- 1993 *The End of the Line, The Line at the End, The Spanish Frontier in North America*, David J. Weber, Yale University Press, New Haven and London, 1992; *Reviews in American History* 21:374-378.
- 1993 *The Spanish-American Homeland: Four Centuries in New Mexico's Río Arriba*, Alvar W. Carlson, The Johns Hopkins University Press, Baltimore and London, 1990, *The Journal of Geography* 92:238-239.
- 1994 *Sonora: Its Geographical Personality*, Robert C. West, The University of Texas Press, Austin, 1993, *Annals of the Association of American Geographers* 84:324-326.
- 1996 *Changes in Land Use and Land Cover: A Global Perspective*, William B. Meyer and B. L. Turner II (eds.), Cambridge University Press, Cambridge, 1994; *Cultural Ecology Newsletter* 27:8-9.
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UNPUBLISHED COLLOQUIA PAPERS and INVITED LECTURES

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- 1984 Agriculture and the Population of Eastern Sonora at Contact. Gran Quivira Conference XIII, Salinas National Monument, New Mexico, 4 October.
- 1986 Eastern Sonora, México: So Close, Yet So Far Away. Austin Chapter, International Good Neighbor Council, 17 October.
- 1987 Early Indians in México and Central America. Summer Geographic Institute, National Geographic Society and Southwest Texas State University, 27 July.
- 1987 Prehistoric and Traditional Farmers as Geomorphic Agents. Department of Geography, Arizona State University, 23 October.

- 1987 The Diffusion of Cattle Ranching to the Hispanic New World. The Evans Library and the Department of Geography, Texas A&M University, 9 November.
- 1989 Cultura, ecología, adaptación y supervivencia. Departamento de Idiomas, Universidad Autónoma de Querétaro, 4 April.
- 1989 Indigenous Contribution to Aqueduct Technology, Cultural Adaptation at the Edge of the Spanish Empire: A Northern View (Symposium), Benson Latin American Collection, University of Texas at Austin, 14 April.
- 1989 Third World Irrigators as Geomorphic Agents: Implications for the Hohokam and Other Civilizations. Reconstruction of Past Landscapes, Scholar-in-Residence Program, Miami University, Oxford, Ohio, 12 October.
- 1989 Techniques Employed in the Reconstruction of Southwestern U.S. Landscapes. Reconstruction of Past Landscapes, Scholar-in-Residence Program, Miami University, Oxford, Ohio, 13 October.
- 1989 Traditional Agriculture, Geography, and Development in the Third World. Department of Social Sciences, University of Texas at Tyler, 9 November.
- 1990 The Route of Cabeza de Vaca West of the Río Grande. The Center for the Study of the Southwest, Southwest Texas State University, San Marcos, 7 August.
- 1990 Prehistoric Water Control and Urbanization in the Basin of México. Department of History, University of Texas at Austin, 16 October.
- 1992 A Brief Geography of the Relationship Between the Sierra Madre Occidental and Mexico's Northwest Coast. Treasures of the Sierra Madre: A Two-Day Symposium on Ethnicity, Ecology, and Development in the Sierra Madre Occidental Chihuahua and Durango, México. Southwest Center, University of Arizona, Tucson, 25 January.
- 1992 Between Mexico and the United States: Land and Life in Texas. New Faculty Seminar, University of Texas at Austin, 19 August.
- 1992 Indigenous North American Agriculture as Seen Through Early European Eyes. The Encounter: A Quincentennial Commemoration, Student Enrichment Series Tyler Junior College, 6 October.
- 1992 Water Control in the Basin of México ca. 1520. Department of History. The University of Texas at Austin, 7 October.
- 1992 Understanding Early European Accounts of Native North American Agriculture. Department of Geography and Anthropology, Louisiana State University, 30 October.
- 1992 Comments on the Cultural Landscape of the Americas. After the Encounter: A Continuing Process (Symposium), National Park Service and Los Compadres de San Antonio Missions National Historical Park, San Antonio, 13 November.
- 1993 Late Prehistoric and Early Colonial Water Control in Central México. Department of Anthropology, University of Arizona, 7 October.
- 1994 Farmers, Development, and Landscape Change: A Discussion of Methodologies. Institute of Latin American Studies. The University of Texas at Austin, 14 October.
- 1994 The Borderlands: A Region with Either Too Many or Too Few Boundaries. National Council for Geographic Education, Lexington, KY, 4 November.
- 1994 Aboriginal and Spanish Irrigation in México: Technology and its Transfer. Department of Geography and Planning, Southwest Texas State University, San Marcos, TX, 18 November.

- 1995 The Evolution and Spread of Canal Irrigation Technology from Ancient México to the Historic Southwest, GTU/AAG Visiting Geographical Scientist Program, University of Akron, Youngstown State University, Kent State University, John Carroll University, 17-19 April.
- 1995 Across Time and Space: Transferring Water-Control Technology from Prehistoric México to the Historic Southwest. Department of Geography, University of Minnesota, 4 May.
- 1996 Irrigation Technology from Prehistoric Mesoamerica to the Historic Southwest. University of Texas Archaeological Society, 22 February.
- 1996 You and Me: The Southwest, Texas, and UT. Keynote address for the 40 Acres Celebration, part of the Students Helping Admissions' Recruitment Effort, The University of Texas at Austin, 30 March.
- 1996 Texas, the Southwest, and México: Perceptions and Understanding of Places. Workshop presentation, Texas Essential Knowledge and Skills Curriculum Development and Implementation Project (TEKSIP), Department of Geography, Texas A&M University, 11 June.
- 1996 Native American Agricultural Field Systems. Texas Archaeological Research Laboratory, 1 November.
- 1997 Merging Old and New World Aqueduct Technologies. John Carter Brown Library, Brown University, 29 January.
- 1997 Developing Water Control Technology: From Prehispanic Mexico to the Historic Southwest. Graduate School of Geography, Clark University, 4 February.
- 1997 Transferring "Spanish" Water Control Technology to Mexico: The Case of Aqueducts in Colonial Times. GTU/AAG Visiting Geographical Scientist Program, University of Kansas, Kansas State University, and Fort Hays State University, 15-19 September.
- 1999 Agriculture and Rural Land Use. Workshop presentation, AP Human Geography Train the Trainers Institute, Department of Geography, Texas A&M University, 21 June.
- 1999 Comments on Hydraulic Technologies and Agricultural Strategies. Chaco Synthesis: Ecology and Economy Conference, National Park Service, USGS Desert Laboratory, University of Arizona, Tucson, 28-30 October.
- 2000 Regions and Ecologies of Mexico, Central and Caribbean America. World 2000 Conference, Austin, TX, 11-12 February.
- 2000 Permanent vs. Shifting Cultivation in the Eastern Woodlands of North America. Symposium of Native American Cultural Ecologies: Past, Present, and Future, 50th International Congress of Americanists, Warsaw, Poland, 10-14 July.
- 2001 Oversimplification in Cultural Geography: The Case of Unsung Heros in Technology Transfers. Department of Geography, Oklahoma State University, 29 January.
- 2001 Discovering that Farmers Don't Operate According to the Academic Literature: Arroyo Irrigation in Sonora, Mexico. International Institute, Global Studies Program, Environment and Development Advanced Research Circle, University of Wisconsin at Madison, 2 February.
- 2001 "Invisible" Individuals as Agents of Landscape Change: Mallorcans in the Colonial New World. Department of Geography, Institute for Environmental Studies, and Latin American, Caribbean and Iberian Studies Program, University of Wisconsin, Madison, 2 February.

- 2001 The Mysterious Rock Grids of the Gila Valley. Environmental Sciences Institute Outreach Program, University of Texas, Austin, 20 April.
- 2003 Prehistoric Water Harvesting and Irrigation in the American Southwest. Texas Archaeological Research Laboratory, University of Texas, Austin, 16 April.
- 2003 Spanish Cattle in Mexico and Texas. The Texas Exes Alumni College, University of Texas, Austin, 18 June.
- 2003 Farming in the Forest? A Reassessment of Documentary Data on Native Agriculture in Eastern North America. Department of Geography/Anthropology, University of Southern Maine, 3 October.
- 2004 Modeling the Early Agricultural Frontier in the Desert Borderlands (co-authored with Jonathan B. Mabry), Southwest Symposium, Chihuahua, 9 January.
- 2004 Short-Term Good, Long-Term Evil? A Question about Traditional Resource Management from Observations Made of Mexican Riverbanks, LLILAS Fellows, University of Texas, Austin, 6 February.
- 2004 Finding the Lost Spanish Missions of Central Texas. People and Place: Human Geographic Relations (a teachers' workshop), Hemispheres: The International Area Studies Consortium, University of Texas, 8 June.
- 2004 You Can Observe a Lot by Just Watching. Department of Geography, University of Southern Mississippi, 11 October.
- 2004 Traditional Farmers, Environmental Stewards? A Question from Mexican Riverbanks, GTU/AAG Visiting Geographical Scientist Program, University of Southern Mississippi, William Carey College, 11 October.
- 2005 Understanding Landscape Dynamics: An Exercise with Maps. The Texas State Historical Association, 109th Annual Meeting, Fort Worth, 4 March.
- 2006 Deconstructing Myth, Reconstructing Reality. Tucson's Mission and Garden: Reconstructing Daily Life and Agriculture in the O'odham/Spanish Borderlands, Conference, Tucson, 23-25 March.
- 2006 On Fieldwork. 21st Street Co-op, Austin, 28 March.
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- 2007 Comments on the History of the Engaruka Irrigation System in Tanzania: Interdisciplinary Approaches. African Environmental History: An International Workshop on Future Research Cooperation. Kungl. Vitterhets Historie och Antikvitets Akademien, Stockholm, Sweden, 25 April.
- 2007 Savages, Swidden, and Scandinavians. Kulturgeografiska Institutionen, Stockholms Universitet, 27 April.
- 2007 Upslope and Downstream: Life in the Sierras of Northern Mexico. Department of Geography, Texas A&M University, 9 November.
- 2008 Trails to Texas: The Antecedents of Ranching. Department of Social Sciences, Tarleton State University, 11 April.
- 2008 Unseen Processes of Landscape Dynamics, Brown Day Lecture, Department of Geography, University of Minnesota, 25 April.
- 2008 Pyramid Builders Had to Eat. "In the Footsteps of Maya and the Inca Peoples: The Indigenous Inheritance of Mexico and Peru," Fulbright-Hays Seminars Abroad Program, Teresa Lozano Long Institute of Latin American Studies, University of Texas, Austin, 30 June.

- 2009 Farming for Profit in a Hungry World, OxfamUT's Annual Hunger Banquet, University of Texas, 3 February.
- 2009 Fields of Green: Agriculture and Economy in Latin America, "Act Local – Think Global," A Program of the Global Leadership Center in partnership with the Student Events Center, University of Texas, 12 February.
- 2009 Gazing, Looking, Seeing: A Walking Adventure. UT Geographical Society, University of Texas, 9 April.
- 2009 Townscapes of Mexico: The Past in the Present. *Hemispheres* 2009 Summer Institute, "Sense of Place: Intersecting Geography, History, and Culture," Teresa Lozano Long Institute of Latin American Studies, University of Texas, Austin, 11 June.
- 2009 Pyramid Builders Had to Eat. "Down the Roads of Southern Mexico: History, Traditions and Modern Challenges," Fulbright-Hays Seminars Abroad Program, Teresa Lozano Long Institute of Latin American Studies, University of Texas, Austin, 29 June.
- 2009 Spanish Use of Native Craftsman in the Construction of Colonial Mexican Aqueducts. Power, Land, and Materiality: Global Studies in Historical-Political Ecology as a Framework for Assessing Policies for "Sustainable Development," Lunds Universitet, Lund, Sweden, 3 August.
- 2009 Antecedents of Amber Waves of Grain. First World Congress of Environmental History, Copenhagen, Denmark, 4 August.
- 2009 Cows not Crawfish: Whence they Came. GTU/AAG Visiting Geographical Scientist Program, Department of Geography, University of New Orleans, 16 November.
- 2009 On Aqueducts. Department of Geography and the Environment, University of Texas at Austin, 20 November.
- 2010 Agricultural Resources of Central America. Department of Geography, Middlebury College, 9 March.
- 2010 Ancient Cartography in the Greater American Southwest. Spring meeting of the Texas Map Society, Austin, 10 April.
- 2010 Pyramid Builders Had to Eat. "Inside Mexico: A Journey through History and Society," Fulbright-Hays Seminars Abroad Program, Teresa Lozano Long Institute of Latin American Studies, University of Texas, Austin, 28 June.
- 2011 Agricultural Landscapes Aren't Always What They Seem, Sustainability Program, University of Denver, 4 February.
- 2011 Eating as Landscape Transformation: Past, Present, and Peculiarities, First Laurance C. Herold Memorial Lecture, Department of Geography, University of Denver, 4 February.
- 2011 Powers of Observation: Discovery and Epiphanies, Colorado College, Colorado Springs, 5 February.
- 2011 Pyramid Builders Had to Eat. "Mexico in the XXIst Century: Dealing with Social and Cultural Diversity," Fulbright-Hays Seminars Abroad Program, Teresa Lozano Long Institute of Latin American Studies, University of Texas, Austin, 27 June.
- 2011 Agricultural Land Doesn't Exist: It is Made..., Sometimes in Ways That Aren't Immediately Apparent. East Invites South: Field Workshop on Precolonial Agriculture and Intensification, British Institute in Eastern Africa, Nairobi, Kenya, 14 September.

- 2011 Change: Now You See It...No You Don't. Landscape Research Group, Kulturgeografiska Institutionen, Stockholms Universitet, 20 September.
- 2011 The Economics of Agrarian Change: Making Farmland. The Historical Ecology of Landesque Capital: An International and Interdisciplinary Workshop, Sveriges Lantbruksuniversitet, Uppsala, Sweden, 21 September.

DOCTORAL DISSERTATIONS SUPERVISED:

- 1992 Dean Paul Lambert, "Changes in a Tropical Dry Forest Shifting Cultivation System, Guerrero, Mexico." (First position: Oklahoma State University, Geography)
- 1995 Andrew Sluyter, "Changes in the Landscape: Natives, Spaniards, and the Ecological Restructuration of Central Veracruz, Mexico During the Sixteenth Century." (First position: Penn State University, Geography)
- 1995 Emily Harriet Young, "Elusive Edens: Linking Local Needs to Nature Protection in the Coastal Lagoons of Baja California Sur, Mexico." (First position: University of Arizona, Geography).
- 1996 Norman Denny Johns, "Brazil's Chocolate Forest: Environmental and Economic Roles of Conservation in Bahia's Cocoa Agroecosystem." (First position: National Wildlife Federation, Austin)
- 1998 Michael David Myers, "Cultivation Ridges in Theory and Practice: Cultural Ecological Insights from Ireland." (First position: Louisiana State University, Anthropology and Geography)
- 1999 Eric Philippe Perramond, "Desert Meadows: The Cultural, Political, and Ecological Dynamics of Private Cattle Ranching in Sonora, Mexico." (First position, Stetson University, Geography)
- 1999 Philip Lawrence Crossley, "Sub-irrigation and Temperature Amelioration in Chinampa Agriculture." (First position, Western State College of Colorado, Environmental Studies)
- 2000 Claudia Lea Oakes, "History and Consequence of Keystone Mammal Eradication in the Desert Grasslands: The Arizona Black-tailed Prairie Dog (*Cynomys ludovicianus arizonensis*)", co-supervised with Robin W. Doughty. (First position: SWCA, Inc., Albuquerque).
- 2002 Michael David Pool, "Prehistoric Mogollon Agriculture in the Mimbres River Valley, Southwestern New Mexico: A Crop Simulation and GIS Approach," Anthropology, co-supervised with James A. Neely (First position, Austin Community College, Anthropology)
- 2002 Bella Bychkova Jordan, "A Geographical Perspective on Ethnogenesis: The Case of the Sakha Republic (Yakutia)," co-supervised with Robert K. Holz.
- 2003 Jerry Owen Bass Jr., "More Trees in the Tropics: Repeat Photography and Landscape Change in Honduras, 1957-2001," (First position: University of Southern Mississippi, Geography and Geology)
- 2003 Maria Grace Fadiman, "Fibers from the Forest: Mestizo, Afro-Ecuadorian, and Chachi Ethnobotany of Piquiqua (*Heteropsis ecuadorensis*, Araceae) and Mocora (*Astrocaryum stanleyanum*, Arecaceae) in Northwestern Ecuador," co-supervised with Francisco L. Perez (First position, Florida Atlantic University, Geography).
- 2005 William Stuart Kirkham, "Valuing Invasives: Understanding the *Merremia Peltata* Invasion in Post-Colonial Samoa," co-supervised with Gregory W. Knapp (First position: California State University-Stanislaus, Geography).

2008 Matthew Joseph Fry, "Construction Materials and Landscape Change: Blocks, Pits, and Aggregates in Central Veracruz, Mexico," (First position: Washington University-St. Louis, Anthropology).

Last revised 5 December 2011, wed